

WHAT IS CLAIMED IS:

1. A front filter in a flat panel display device, the front filter being attached to a front surface of the flat panel display device and comprising a NIR (near infrared ray) blocking film for blocking the emission of near infrared rays to outside; an EMI (electromagnetic interference) shielding film for absorbing electromagnetic waves and for preventing the electromagnetic waves from being emitted to outside; a glass formed on a front surface of the EMI shielding film; and an antireflection coating for preventing incident rays from outside from reflecting back to the outside,

wherein the EMI shielding film comprising: a mesh unit formed of conductive meshes that are intersected with each other; and a mesh frame for surrounding the mesh unit to support the mesh unit and to define an effective display area on a screen.

2. The front filter according to claim 1 further comprises an antireflection coating between the front surface of the flat panel display device and the NIR blocking film so that the antireflection coating prevents incident rays from outside from reflecting back to the outside.

3. The front filter according to claim 1, wherein the conductive meshes of the mesh unit are formed by etching a two-layered base film comprised of PET (poly ethylene terephthalate) and metal foils.

4. The front filter according to claim 1, wherein the mesh frame is made from one of silver (Ag), copper (Cu), gold (Au), and aluminum (Al).

5. The front filter according to claim 1, wherein the mesh frame is formed by oxidizing a metal foil.

6. The front filter according to claim 1, wherein the mesh frame is formed by coating a metal foil with a compound film.

7. The front filter according to claim 1, wherein the mesh frame is formed by melanizing the surface of a metal foil through an electroless plating process.

8. The front filter according to claim 1, wherein the mesh frame is formed by printing the surface of a metal foil in ink or dye.

9. A front filter in a flat panel display device, the front filter being attached to a front surface of the flat panel display device and comprising a NIR (near infrared ray) blocking film for blocking the emission of near infrared rays to outside; an EMI (electromagnetic interference) shielding film for absorbing electromagnetic waves and for preventing the electromagnetic waves from being emitted to outside; and an antireflection coating for preventing incident rays from outside from reflecting back to the outside;

wherein the EMI shielding film comprising: a mesh unit formed by patterning a two-layered base film comprising PEP (poly ethylene terephthalate) and metal foils; and a mesh frame for surrounding the mesh unit, the mesh frame having a two-layered structure comprised of PEP (poly ethylene terephthalate) and metal foils.

10. The front according to claim 9 further comprises an antireflection coating between the front surface of the flat panel display device and the NIR blocking film so that the antireflection coating prevents incident rays from outside from reflecting back to the outside.

11. An EMI (electromagnetic interference) shielding film of a flat panel display device, comprising:

a mesh unit formed of conductive meshes that are intersected with each other; and

a mesh frame for surrounding the mesh unit to support the mesh unit and to define an effective display area on a screen.

12. The EMI shielding film according to claim 11, wherein the mesh unit is formed by patterning a two-layered base film comprised of PEP (poly ethylene terephthalate) and metal foils.

13. The EMI shielding film according to claim 11, wherein the mesh frame has a two-layered structure comprising PEP (poly ethylene terephthalate) and metal foils.